

# WISCONSIN'S 2004 LAKE SUPERIOR CREEL SURVEY REPORT

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## INTRODUCTION

A creel survey was conducted on Wisconsin waters of Lake Superior during the winter ice fishery (Jan. 17, 2004 to March 31, 2004), and during the open water fishery (Ice-out April 19, 2004 to September 30, 2004).

These surveys were designed to collect data on angler pressure, harvest and biological statistics. Five fishery types were surveyed.

1. Open water cold private (salmonids caught by non-charter parties).
2. Open water cool private (cool water species caught by non-charter parties).
3. Ice shallow water (less than 60 feet of water).
4. Ice cool water (targeting cool water species, i.e. walleye, northern pike, yellow perch).
5. Ice deep water, "bobbing" (60 feet and deeper).

Two additional fisheries were monitored using the results from mandatory reporting.

1. Charter fishery.
2. Sturgeon fishery.

*The creel survey was designed to put special emphasis on the lake trout harvest in Wisconsin waters of Lake Superior. Due to budget restraints and to insure accuracy in the salmonid harvest, certain predominately cool water sites, as well as the shore fishery, were dropped from the survey to allow more time at cold water (lake trout) access areas.*

## METHODS

### OPEN WATER PRIVATE

In 2004, a single loop time interval creel survey was conducted during the open water fishing season on Wisconsin waters of Lake Superior. Three creel clerks worked four different routes: Cornucopia / Bark Point / Herbster / Port Wing (one route), Saxon Harbor, Superior and Washburn. (Figure 1). Due to budget restraints several routes could not be covered including Ashland, Bayfield, Sand Bay, and the December open water fishery. Data (angler trips, angler hours, and lake trout harvest) for these three sites were derived by taking the percent change that occurred for Washburn from 2000 to 2004 and applying it to each port (Ashland, Bayfield and Sand Bay). December open water numbers were not extrapolated from known numbers due to the variability of the fishery. Each route consisted of various pressure sites the creel clerk checked. The sites selected and the amount of time spent at any given location were based on pressure counts from past years. The sites with the highest pressure were allotted a higher percentage of time to be checked during a route.

In a single loop time-interval creel, the clerk started and finished a route at the initial pressure site (i.e. one complete circuit). The initial pressure site, as well as the direction of travel, changed randomly according to computer generated schedules (Appendix I).

Using the time interval procedure, vehicles with boat trailers and harbor boats were counted at each access site. Boats going out to fish or coming in from fishing were counted as a fraction of the time the clerk spent at the site (i.e. boat pressure = amount of time the clerk has remaining at the site / total time spent at the site). A boat starting to fish was added to the initial pressure and a boat stopping or coming in from fishing was subtracted from the initial pressure. An example of a time interval pressure worksheet is shown in Appendix II.

The open water creel routes, start times, stop times, etc. are shown in Appendix III.

Boats coming in from fishing were interviewed at the site. Total number of anglers on board was treated as an angler party. The type of fishery they were involved in was recorded. If the boat was fishing for cool water species such as northern pike, walleye, perch, smallmouth bass in a predominately cool water area, it was recorded as "open water cool private". If the boat was fishing trout or salmon, it was recorded in "open water cold private". If the boat was fishing for

“anything that bites”, the area the boat fished would determine which category to place the boat in. Finally, if the boat did not fish at all it was placed in the category “pleasure”. Charter boats were not counted in pressure at a site due to mandatory reporting. Sailboats were also eliminated from the pressure unless fishing gear (downriggers or rods) was present. The state waters that the boat fished in was determined. Areas such as Saxon Harbor and Superior are adjoining boundary waters. Computer programming in the final estimation of total harvest eliminated fish caught in waters other than Wisconsin. Boats that fished both states’ waters had half the total catch assigned to Wisconsin waters.

The fish caught (if any) by the boat were identified and measured to the nearest tenth of an inch. Fin-clips were recorded as well as any tags that were present. An interview sample sheet is shown in Appendix V.

Route, month, weekday and weekend variables, as well as the type of fishery (cold water or cool water) calculated pressure and harvest estimates.

## ICE CREEL

An ice fishery creel survey was conducted from the mainshore at Bonos Creek Landing (south of Washburn), to the northernmost area of fishing activity (Cornucopia/Bark Point) (Figure 1). The pressure estimate was done by the stratified creel survey method (Appendix IV). Two separate vehicle counts were made daily at approximately 9:00 AM and 2:00 PM for each site in a given random route. Vehicles present in morning and afternoon checks were not counted twice. An ice pressure sample sheet is shown in Appendix VI. Interviews for the ice fishery creel were conducted in the same manner as the open water method. The number of anglers in a vehicle was considered an angling party. Anglers involved in the ice fishery were separated into three different fisheries: ice shallow water, ice cool water and ice “bobbing”. Ice shallow water is considered fishing in waters less than 60 feet for salmonids, coregonids and smelt. Ice cool water is considered fishing for cool water species (yellow perch, walleye, northern pike, etc.). Ice “bobbing” is considered fishing in water deeper than 60 feet or more (mainly for lake trout).

The ice fishing pressure and harvest rates were separated by month, weekend and weekday variables, as well as the type of fishery in which the anglers were involved.

## CHARTER

Harvest estimates for guided charters came from mandatory monthly reports that were initiated in 1973. Information on number of anglers, hours fished, location (grid number), and number of various species harvested was included in the monthly catch report (Appendix VII).

## STURGEON

Harvest estimates on Lake Sturgeon were taken from mandatory registration. Pressure estimates were not available due to the incidental nature of the fishery.

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The total number of lake trout harvested during the 2004 fishing year by sport angling was calculated using a weighted mean. Extrapolation of this number was done by fishery type, fishing port, harvest estimate, month, average length and percent of native origin fish. Weight extrapolated from the total harvest of this species was calculated using the length-weight regression equations from the DNR 2000, 2002 - 2004 spring lake trout assessment. The regression equation is as follows:

NATIVE ORIGIN	HATCHERY ORIGIN
$\text{Ln}(\text{weight}) = -11.4583116 + 2.96822771 (\text{Ln length})$	$\text{Ln}(\text{weight}) = -12.7250011 + 3.16982456 (\text{Ln length})$
Length = mm	
Weight = grams	
NATIVE AND HATCHERY ORIGIN	
$\text{Ln}(\text{weight}) = -12.3278537 + 3.10620919 (\text{Ln length})$	

Weights for other species were calculated using regression equations from data collected on the R/V Hack Noyes during 1986-2004 field surveys, as well as DNR stream survey work. Weights for Chinook salmon were estimated using the Minnesota DNR Investigational Report # 382, Growth and Fecundity of Chinook salmon in Western Lake Superior (July 1985).

## RESULTS

### OPEN COLD WATER PRIVATE

**EFFORT** - During 2004, an estimated 28,071 individual angler trips and 136,669 angler hours were spent pursuing salmonids in Wisconsin waters of Lake Superior (Table 1.) All Ports that were creel recorded higher angler trips and higher angler hours (except Corn. / Port Wing) than during 2003. Saxon's angler hours and angler trips were the highest since 1990 (Table 2).

**HARVEST RATES** - The overall harvest rate was highest out of Saxon Harbor (0.25 fish/hour), followed by Corn. / Port Wing (0.16 fish/hour), Washburn (0.16 fish/hour) and Superior (0.15 fish/hour). All areas had higher catch rates than 2003 except for Superior which was down slightly from 2003 (0.15 fish/hour). Saxon Harbor had the highest lake trout catch rate with 0.21 lake trout per hour, followed by the Corn. / Port Wing (0.11 LT/hour), Washburn (0.09 LT/hour) and Superior (0.06 LT/hour). All areas creel had higher lake trout catch rates than 2003. The Saxon area had the highest overall harvest rate and lake trout catch rates ever recorded in that area. (Table 3-6).

**HARVEST** - Approximately 19,989 fish were harvested during the open water season in the four areas creel. Lake trout were the most abundant species harvested accounting for 64.0% of the total catch with 12,797 (Table 7). Lake trout harvest was the highest out of the Saxon area with a harvest of 4,843, followed by Corn. / Port Wing with a harvest of 3,494, Washburn recorded 2,730 lake trout and the Port of Superior had a lake trout harvest of 1,730 (Table 8-11).

Lake trout harvest rates (LT/angler hour) during the months of June – August were highest in Saxon Harbor (0.242), followed by Cornucopia / Port Wing (0.122), Washburn (0.121) and Superior (0.063). All areas recorded higher rates over 2003 (Table 12).

Coho salmon were the second most harvested species accounting for 14.0% of the harvest with 2,793 fish (Table 7). Average size of cohos in this fishery was 18.8" (Table 1). Walleye ranked third with 1,804 fish harvested accounting for 9.0% of the catch. Average size of cohos was 18.1". Chinook salmon ranked fourth with 1,231 fish harvested accounting for 6.2% of harvest. Average size of chinooks in this fishery was 22.7". Siscowet (fats) ranked fifth with 669 for 3.3%. Brown trout ranked sixth with 453 for 2.3%.

Harvest of native origin lake trout in all areas creel accounted for 91.2% of the total lake trout harvest in this fishery. The highest ever recorded. Percent native lake trout harvest was highest out of Saxon Harbor with 99.2%, followed by Washburn (95.9%), Corn. / Port Wing (84.3%) and Superior (75.7%). All ports recorded record highs (Table 13). In this fishery the average size lake trout was 21.7" (Native origin average size was 21.6", Hatchery origin average size was 23.4").

Separating the estimated lake trout harvest of 16,107 by management zone in this fishery, 4,063 lake trout were caught in W-1 and 12,044 lake trout were harvested in W-2 (Table 14).

### OPEN COOL WATER PRIVATE

The creel survey was designed to put special emphasis on the lake trout harvest in Wisconsin waters of Lake Superior. Due to budget restraints and to insure accuracy in the salmonid harvest, certain predominately cool water sites, were dropped from the survey to allow more time at cold water (lake trout) access areas. Thus, the Open Cool Water Private numbers are minimal. During 2004, an estimated 5,841 angler trips and 18,735 angler hours were spent pursuing cool water species on the four creel routes (Table 1). The Port of Superior recorded the highest effort and harvest, due primarily to anglers pursuing walleyes. Superior anglers harvested 2,350 walleyes in this fishery. Please refer to Table 1 for effort and harvest information for the cool water fishery.

### ICE FISHERY

*Since this report emphasizes lake trout harvest, the ice fishery creel started when lake trout waters were accessible. The shallow and cool water ice fisheries were not covered until then and the data in this report only represents partial numbers. Due to budget restraints only the Western side of Chequamegon Bay was creel and does not include data from the Ashland fishery.*

### ICE SHALLOW WATER

The shallow water fishing began on December 13, 2003 off the "S" Curve south of Washburn and ended approximately March 31, 2004. The data in this report starts on Jan 17, 2004. An estimated 1,744 angler trips and 7,676 angler hours resulted in 426 fish harvested (Table 1). Splake were most often harvested accounting for 27.7% of the catch with 118 fish. Whitefish ranked second with a harvest of 78 (17.8%), lake trout ranked third with 73 (17.1%).

Cornucopia also recorded a shallow water fishery this year. An estimated 8 angler trips and 15 angler hours resulted in zero fish harvested (Table 1).

### **ICE DEEP WATER BOBBING (APOSTLE ISLANDS INCL. MADELINE ISLAND)**

An estimated 3,178 angler trips and 16,975 angler hours resulted in a harvest of 2,882 fish in this deep-water fishery (Table 1). Angler trips and angler hours were down from 2003 (Table 15). Lake trout were the most often harvested accounting for 62.1% of the harvest with 1,791 fish. Siscowets ranked second with 552 fish harvested for 19.1% of the harvest, whitefish third with 458 fish 15.9% (Table 16). Overall harvest rate of 0.170 fish per hour was higher than 2003, but the fifth lowest since 1991. The Lake trout harvest rate was 0.106 fish per hour, slightly higher than 2003 rate of 0.091 (Table 17). The average size lake trout in this fishery was 23.5" native origin and 26.0" for hatchery origin (Table 14).

### **ICE COOL WATER FISHERY**

The majority of the cool water fishery exists off the Ashland side of the Bay, however a small fishery exists off of Washburn and Bayfield with anglers targeting yellow perch and walleye. An estimated 27 angler trips and 106 angler hours occurred during our sample period. There were 42 yellow perch reported harvested in this fishery. Cornucopia also recorded a cool water fishery in 2004. An estimated 12 angler trips and 47 angler hours resulted zero fish harvested.

### **ICE DEEP WATER BOBBING – CORNUCOPIA**

Ice conditions were stable enough in 2004 to allow fishing out of Cornucopia. The season began on Jan. 22, 2003 and ended on March 20, 2003. An estimated 586 angler trips and 3,086 angler hours resulted in a harvest of 516 fish. The number of lake trout harvested was 485, followed by 22 fats, 5 cohos and 4 chinook salmon (Table 1). Lake trout harvest rate was 0.157 lake trout / hour (Table 17).

Lake trout harvest rates in all areas of bobbing in 2004 resulted in a total lake trout harvest rate of 0.113 lake trout / hour. This rate was up slightly from 2003 but below the 1991-2003 average of 0.140 (Table 17).

## **CHARTER FISHERY**

**EFFORT** - Twenty seven(27) charter captains were active during the 2004 open water season on the Wisconsin waters of Lake Superior. The number of anglers (2,510) and number of angler hours (14,614) were consistent with previous year's numbers (Table 18). The number of anglers and the number of angler hours increased from last year in the Ports of Superior and Saxon and decreased out of the ports of Ashland/Bayfield/Washburn and Cornucopia / Port Wing (Table 19-22).

**HARVEST RATES** - The overall harvest rate of 0.31 fish per hour and the lake trout harvest rate of 0.27 fish per hour were consistent with previous years (Table 18). Saxon had the highest overall harvest rate (0.32fish/hour) and lake trout harvest rate (0.30 LT/hour). Ashland, Bayfield and Washburn Charters were a close second with 0.32 fish/hour and 0.29 LT/hour. Corn./Port Wing was third with a 0.31 fish /hour and 0.23 LT/hour. Superior fourth with 0.30 fish/hour and 0.26 LT/hour (Table 19-22).

**HARVEST** - Lake trout remain the number one harvested fish in this fishery, comprising 86.7% (3,967) of the overall harvest of 4,573. Chinook salmon second with 242 fish for 5.3% of the harvest. Coho salmon was third with 208 fish for 4.5% of the harvest (Table 23).

## **LAKE STURGEON FISHERY**

Very few fishermen actually target sturgeon in Wisconsin waters of Lake Superior. The bulk of the harvest is incidental and occurs in Chequamegon Bay when angler pressure is at its height (ice fishery and the first month of open water). Harvest estimates are obtained from mandatory registration of angler caught sturgeon. In 2004, four (4) sturgeon were registered. 104 sturgeon angler tags were issued locally in the Ashland, Bayfield and Washburn area (Table 24).

## **ACKNOWLEDGEMENTS**

I would like to give thanks to the creel clerks. They not only work hard at obtaining accurate data for the census, but they play an important role in public relations for the Department. Their efforts are greatly appreciated. The creel clerks involved for this report were: Scott Sapper (winter creel), Eugene Norman (Saxon Harbor), Mark Hanson (Washburn, Cornucopia / Port Wing) and Read Eldred(Superior). I would also like to thank Mike Seider, Scott Hulse and Scott Sapper for editing this report.



TABLE 1. 2004 CREEL CENSUS STATISTICS

FISHERY TYPE	ANGL.	ANGL.	BRWN																	BLK.		BLHD	
	TRIPS	HOURS	LKT	COHO	CHIN.	TRT	SPLK.	RBT	BROK	ATL	FATS	WF	MEN.	HERR	BURBOT	SMELT	NOP	WAE	YEP	CRP	CARP	CATF	TOTALS
CHARTER																							
ASH.BYF.WSH.	1,133	6,224	1,823	90	42	34	4	6		2	1												2,002
CORN. - PORT W.	354	1,963	451	47	104	10		3															615
SAXON	169	1,148	341	22	5	1		2															371
SUPERIOR	854	5,279	1,352	49	91	3		5		1							2	81	1				1,585
TOTAL	2,510	14,614	3,967	208	242	48	4	16	0	3	1	0	0	0	0	0	2	81	1	0	0	0	4,573

## ICE

SHALLOW	1,744	7,676	73	10		25	118					76		71	15				38				426
COOL WATER	27	106																	42				42
APOS. ISL.-BOB.	3,178	16,975	1,791	6							552	458		46	29								2,882
CORN. SHAL.	8	15																					0
CORN. COOL	12	47																					0
CORN. BOBB.	586	3,086	485	5	4						22												516
<b>TOTAL</b>	<b>5,555</b>	<b>27,905</b>	<b>2,349</b>	<b>21</b>	<b>4</b>	<b>25</b>	<b>118</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>574</b>	<b>534</b>	<b>0</b>	<b>117</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,866</b>
AVERAGE SIZE			24.0	16.4	22.3	18.2	17.4				22.9	18.3		16.9	26.9				7.9				

## OPEN COLD WTR \*\* NUMBERS DERIVED FROM PREVIOUS YEARS\*\*

**ASHLAND**	1,308	7,184	1,354																				1,354
**BAYFIELD**	2,874	14,975	1,720																				1,720
CORN. - PORT W.	6,979	31,070	3,494	576	207	171		88			408												4,944
**SAND BAY**	239	935	236																				236
SAXON	4,976	23,479	4,843	567	323	52		6															5,791
SUPERIOR	5,883	29,773	1,730	336	424	24					216							1,774					4,504
WASHBURN	5,812	29,253	2,730	1,314	277	206	72	38	12		45						26	30					4,750
<b>TOTAL</b>	<b>28,071</b>	<b>136,669</b>	<b>16,107</b>	<b>2,793</b>	<b>1,231</b>	<b>453</b>	<b>72</b>	<b>132</b>	<b>12</b>	<b>0</b>	<b>669</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>1,804</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23,299</b>
AVERAGE SIZE			21.7	18.8	22.7	19.8	17.6	25.9	---		23.4						27.6	18.7					

## OPEN COOL WTR

ASHLAND																							0
BAYFIELD																							0
CORN. - PORT W.	221	1,112	84														23	16					123
SAXON																							0
SUPERIOR	4,854	15,115															34	2,350	34	9	8	22	2,457
WASHBURN	766	2,508															9	44					53
<b>TOTAL</b>	<b>5,841</b>	<b>18,735</b>	<b>84</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66</b>	<b>2,410</b>	<b>34</b>	<b>9</b>	<b>8</b>	<b>22</b>	<b>2,633</b>
AVERAGE SIZE			24.2														29.3	18.1	8.9	10.2	29.9	18.3	

STURGEON 4 FISH REGISTRATED. 104 TAGS ISSUED (ASHLAND, BAYFIELD, WASHBURN ONLY)

<b>GRAND TOTAL</b>	<b>41,977</b>	<b>197,923</b>	<b>22,507</b>	<b>3,022</b>	<b>1,477</b>	<b>526</b>	<b>194</b>	<b>148</b>	<b>12</b>	<b>3</b>	<b>1244</b>	<b>534</b>	<b>0</b>	<b>117</b>	<b>44</b>	<b>0</b>	<b>94</b>	<b>4,295</b>	<b>115</b>	<b>9</b>	<b>8</b>	<b>22</b>	<b>34,371</b>
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AVE. LENGTH (IN)			21.9	18.9	23.0	19.5	17.5	25.9	---	---	23.2	18.3	---	16.9	26.9	---	28.8	18.4	8.4	10.2	29.9	18.3	
AVE. WEIGHT (LBS)			3.29	2.20	4.35	3.00	1.82	6.56	---	---	3.86	2.04	---	1.31	5.59	---	5.27	2.13	0.24	---	---	---	
TOTAL WEIGHT			74,048	6,648	6,425	1,578	353	971	---	---	4,802	1,089	---	153	246	---	495	9,148	27	---	---	---	
SAMPLE SIZE			1,999	424	177	72	21	16	---	---	188	58	---	8	2	---	13	508	6	1	1	3	

**TABLE 2**  
**ESTIMATED ANGLER EFFORT(ANGLER TRIPS AND ANGLER HOURS) BY AREA IN WISCONSIN WATERS**  
**OF LAKE SUPERIOR COLD WATER OPEN PRIVATE. 1990-2004.**

ANGLER TRIPS																
AREA	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	AVERAGE
ASHLAND	3,956		3,467	1,021	2,941						2,193					2,716
BAYFIELD					3,815						4,818					4,317
CORN. - PORT W.	6,126	3,506	5,554	6,295	6,646	6,486	4,030	3,392	6,888	5,792	3,664	6,913	6,351	6,848	6,979	5,698
SAND BAY					317						400					359
SAXON HARBOR	2,898	3,256	2,242	4,020	4,462	3,587	3,015	4,510	3,454	3,641	3,758	3,391	3,708	3,308	4,976	3,615
SUPERIOR	8,420	8,892	7,630	9,728	7,640	7,745	6,495	4,500	4,300	5,271	4,050		6,586	5,387	5,883	6,609
WASHBURN			9,252	6,891	7,925	7,256	6,120	5,967	8,257	12,337	9,744	7,774	8,463	5,232	5,812	7,772
BAYF.-WASHB.	14,396	15,105														14,751
TOTAL	35,796	30,759	28,145	27,955	33,746	25,074	19,660	18,369	22,899	27,041	28,627	18,078	25,108	20,775	23,650	

2000 Sand Bay data is extrapolated from know years.

ANGLER HOURS																
AREA	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	AVERAGE
ASHLAND	17,197		16,658	5,940	16,186						11,943					13,585
BAYFIELD					21,528						24,895					23,212
CORN. - PORT W.	26,089	16,003	26,707	25,798	28,284	26,971	18,493	15,295	26,983	26,891	15,489	29,656	29,443	31,388	31,070	24,971
SAND BAY					1,345						1,555					1,450
SAXON HARBOR	14,085	17,157	10,257	21,627	23,423	17,714	15,566	22,653	16,196	17,921	18,436	17,358	15,791	16,152	23,479	17,854
SUPERIOR	45,988	51,945	43,734	58,215	41,718	41,424	37,674	23,454	21,634	25,692	19,219		33,027	25,434	29,773	35,638
WASHBURN			48,185	36,428	37,729	35,750	26,588	26,133	35,275	56,503	48,631	38,769	37,015	24,277	29,253	36,964
BAYF.-WASHB.	66,820	77,534														72,177
TOTAL	170,179	162,639	145,541	148,008	170,213	121,859	98,321	87,535	100,088	127,007	140,168	85,783	115,276	97,251	113,575	

2000 Sand Bay data is extrapolated from know years.

**TABLE 3. SAXON HARBOR OPEN WATER COLD PRIVATE. EFFORT, HARVEST RATES, LAKE TROUT HARVEST RATES. 1988-2004.**

YEAR	ANGLER	ANGLER	TOTAL	FISH / HOUR	ANGLR.	# OF	LAKE	ANGLR.
	TRIPS	HOURS	FISH HARVEST		HRS / FISH	LAKE TROUT	TROUT / HOUR	HRS / LKT
1988	4,364	20,703	3,676	0.18	5.63	2,384	0.12	8.68
1989	4,765	24,744	4,627	0.19	5.35	3,327	0.13	7.44
1990	2,898	14,085	2,891	0.21	4.87	2,525	0.18	5.58
1991	3,256	17,157	2,419	0.14	7.09	1,735	0.10	9.89
1992	2,242	10,257	1,474	0.14	6.96	1,240	0.12	8.27
1993	4,020	21,627	2,910	0.13	7.43	2,234	0.10	9.68
1994	4,462	23,423	3,792	0.16	6.18	2,962	0.13	7.91
1995	3,587	17,714	2,557	0.14	6.93	1,631	0.09	10.86
1996	3,015	15,566	2,264	0.15	6.88	1,776	0.11	8.76
1997	4,510	22,653	4,795	0.21	4.72	3,271	0.14	6.93
1998	3,454	17,921	3,327	0.19	5.39	2,889	0.16	6.20
1999	3,641	16,196	4,450	0.27	3.64	2,224	0.14	7.28
2000	3,758	18,436	3,130	0.17	5.89	2,313	0.13	7.97
2001	3,391	17,358	3,499	0.20	4.96	2,593	0.15	6.69
2002	3,708	15,791	2,471	0.16	6.39	1,968	0.12	8.02
2003	3,308	16,152	3,081	0.19	5.24	2,606	0.16	6.20
2004	4,976	23,479	5,791	0.25	4.05	4,843	0.21	4.85
<b>TOTAL</b>	<b>63,355</b>	<b>313,262</b>	<b>57,154</b>			<b>42,521</b>		
<b>AVE.</b>	<b>3,727</b>	<b>18,427</b>	<b>3,362</b>	<b>0.18</b>	<b>5.48</b>	<b>2,501</b>	<b>0.14</b>	<b>7.37</b>

**TABLE 4. WASHBURN OPEN WATER COLD PRIVATE. EFFORT, HARVEST RATES, LAKE TROUT HARVEST RATES. 1988-2004.**

YEAR	ANGLER	ANGLER	TOTAL	FISH / HOUR	ANGLR.	# OF	LAKE	ANGLR.
	TRIPS	HOURS	FISH HARVEST		HRS / FISH	LAKE TROUT	TROUT / HOUR	HRS / LKT
1988*	16,154	81,702	12,562	0.15	6.50	3,132	0.04	26.09
1989*	16,348	82,230	10,629	0.13	7.74	3,052	0.04	26.94
1990*	14,396	66,820	6,032	0.09	11.08	3,033	0.05	22.03
1991*	15,105	77,534	11,347	0.15	6.83	4,935	0.06	15.71
1992	9,252	48,185	5,996	0.12	8.04	2,369	0.05	20.34
1993	6,849	36,136	3,838	0.11	9.42	1,789	0.05	20.20
1994	7,925	37,729	7,066	0.19	5.34	1,549	0.04	24.36
1995	7,256	35,750	6,411	0.18	5.58	1,704	0.05	20.98
1996	6,120	26,588	3,801	0.14	7.00	2,469	0.09	10.77
1997	5,967	26,133	4,619	0.18	5.66	2,774	0.11	9.42
1998	8,257	56,503	5,543	0.10	10.19	4,119	0.07	13.72
1999	12,337	35,275	10,520	0.30	3.35	3,635	0.10	9.70
2000	9,744	48,631	7,046	0.14	6.90	3,716	0.08	13.09
2001	7,774	38,769	4,513	0.12	8.59	2,797	0.07	13.86
2002	8,463	37,015	4,662	0.13	7.94	2,432	0.07	15.22
2003	5,232	24,277	2,416	0.10	10.05	1,614	0.07	15.04
2004	5,812	29,253	4,750	0.16	6.16	2,730	0.09	10.72
<b>TOTAL</b>	<b>162,991</b>	<b>788,530</b>	<b>111,751</b>			<b>47,849</b>		
<b>AVE.</b>	<b>9,588</b>	<b>46,384</b>	<b>6,574</b>	<b>0.14</b>	<b>7.06</b>	<b>2,815</b>	<b>0.06</b>	<b>16.48</b>

\*1988-1991 DATA COMBINES BOTH BAYF. AND WASH.

**TABLE 5. CORNUCOPIA / PORT WING OPEN WATER COLD PRIVATE. EFFORT, HARVEST RATES, LAKE TROUT HARVEST RATES. 1988-2004.**

YEAR	ANGLER	ANGLER	TOTAL	FISH / HOUR	ANGLR.	# OF	LAKE	ANGLR.
	TRIPS	HOURS	FISH HARVEST		HRS / FISH	LAKE TROUT	TROUT / HOUR	HRS / LKT
1988	6,776	33,127	6,244	0.19	5.31	986	0.03	33.60
1989	6,893	31,880	3,724	0.12	8.56	1,109	0.03	28.75
1990	6,126	26,089	1,553	0.06	16.80	719	0.03	36.29
1991	3,506	16,003	1,758	0.11	9.10	1,101	0.07	14.53
1992	5,554	26,707	3,878	0.15	6.89	2,292	0.09	11.65
1993	6,295	25,798	3,184	0.12	8.10	1,591	0.06	16.21
1994	6,646	28,284	2,421	0.09	11.68	1,252	0.04	22.59
1995	6,486	26,971	2,806	0.10	9.61	925	0.03	29.16
1996	4,030	18,493	2,189	0.12	8.45	1,118	0.06	16.54
1997	3,392	15,295	2,098	0.14	7.29	896	0.06	17.07
1998	6,888	26,891	4,716	0.18	5.70	3,161	0.12	8.51
1999	5,792	26,983	4,979	0.18	5.42	2,515	0.09	10.73
2000	3,664	15,489	2,453	0.16	6.31	1,768	0.11	8.76
2001	6,913	29,656	5,318	0.18	5.58	3,949	0.13	7.51
2002	6,351	29,443	5,341	0.18	5.51	3,166	0.11	9.30
2003	6,848	31,388	4,589	0.15	6.84	3,111	0.10	10.09
2004	6,979	31,070	4,944	0.16	6.28	3,494	0.11	8.89
<b>TOTAL</b>	<b>99,139</b>	<b>439,567</b>	<b>62,195</b>			<b>33,153</b>		
<b>AVE.</b>	<b>5,832</b>	<b>25,857</b>	<b>3,659</b>	<b>0.14</b>	<b>7.07</b>	<b>1,950</b>	<b>0.08</b>	<b>13.26</b>

**TABLE 6. PORT OF SUPERIOR OPEN WATER COLD PRIVATE. EFFORT, HARVEST RATES, LAKE TROUT HARVEST RATES. 1988-2004.**

YEAR	ANGLER	ANGLER	TOTAL	FISH / HOUR	ANGLR.	# OF	LAKE	ANGLR.
	TRIPS	HOURS	FISH HARVEST		HRS / FISH	LAKE TROUT	TROUT / HOUR	HRS / LKT
1988	10,537	58,693	10,163	0.17	5.78	5,155	0.09	11.39
1989	9,770	56,602	8,285	0.15	6.83	3,920	0.07	14.44
1990	8,420	45,988	4,770	0.10	9.64	2,932	0.06	15.68
1991	8,892	51,945	8,486	0.16	6.12	3,235	0.06	16.06
1992	7,630	43,734	6,460	0.15	6.77	2,587	0.06	16.91
1993	9,728	58,215	9,636	0.17	6.04	3,830	0.07	15.20
1994	7,640	41,718	3,588	0.09	11.63	1,962	0.05	21.26
1995	7,745	41,424	4,978	0.12	8.32	2,268	0.05	18.26
1996	6,495	37,674	3,702	0.10	10.18	1,488	0.04	25.32
1997	4,500	23,454	2,334	0.10	10.05	743	0.03	31.57
1998	4,300	25,692	2,477	0.10	10.37	1,359	0.05	18.91
1999	5,271	21,634	3,049	0.14	7.10	1,554	0.07	13.92
2000	4,050	19,219	2,513	0.13	7.65	1,681	0.09	11.43
2001								
2002	6,586	33,027	5,643	0.17	5.85	2,388	0.07	13.83
2003	5,387	25,434	4,092	0.16	6.22	1,316	0.05	19.33
2004	5,883	29,773	4,504	0.15	6.61	1,730	0.06	17.21
<b>TOTAL</b>	<b>112,834</b>	<b>614,226</b>	<b>84,680</b>			<b>38,148</b>		
<b>AVE.</b>	<b>7,052</b>	<b>38,389</b>	<b>5,293</b>	<b>0.14</b>	<b>7.25</b>	<b>2,384</b>	<b>0.06</b>	<b>16.10</b>

NO CREEL CONDUCTED DURING 2001.



TABLE 7

WISCONSIN'S LAKE SUPERIOR. OPEN WATER COLD PRIVATE HARVEST 1988 - 2004.  
(PERCENT OF TOTAL HARVEST PER YEAR IN PARENTHESES)

YEAR	LAKE TROUT				COHO SALMON		CHINOOK SALMON		BROWN TROUT		SPLAKE TROUT		RAINB. TROUT		ATL. SAL.		BROOK TROUT		FATS		FISH		WHITE HERR MULE BURBOT SMELT MUSKY NOP SMB WAE YEP				TOTAL HRVST
	12,266	15,306	5,081	1,342	993	456	40												117								35,836
1988	12,631	11,095	3,052	1,342	320	418	82	17	67										67								29,529
1989	10,089	2,822	1,477	1,141	369	49	13		122										122								16,456
1990	11,895	7,357	966	802	77	191	16		226										226								25,139
**	(47.3%)	(29.3%)	(3.8%)	(3.2%)	(0.3%)	(0.8%)	(0.1%)		(0.9%)										(0.9%)								
1992	9,332	2,594	1,901	2,115	301	42	130	15	271										271								19,453
***	(48.0%)	(13.3%)	(9.8%)	(10.9%)	(1.5%)	(0.2%)	(0.7%)	(0.1%)	(1.4%)										(1.4%)								
1993	10,158	3,367	2,436	710	36	82	29		325	12	59		16						325								20,341
***	(49.9%)	(16.6%)	(12.0%)	(3.5%)	(0.2%)	(0.4%)	(0.1%)		(1.6%)	(0.1%)	(0.3%)		(0.1%)						(1.6%)								
1994	10,187	8,682	923	896	278	84	30		89	21									89								22,076
**	(46.1%)	(39.3%)	(4.2%)	(4.1%)	(1.3%)	(0.4%)	(0.1%)		(0.4%)	(0.1%)									(0.4%)								
1995	9,236	7,263	1,311	390	283	40	64	12	702		6								702								19,594
*	(47.1%)	(37.1%)	(6.7%)	(2.0%)	(1.4%)	(0.2%)	(0.3%)	(0.1%)	(3.6%)		(0.0%)								(3.6%)								
1996	10,727	1,989	1,528	501	68	115	9	18	206	6	5								206								15,897
*	(67.5%)	(12.5%)	(9.6%)	(3.2%)	(0.4%)	(0.7%)	(0.1%)	(0.1%)	(1.3%)	(0.0%)	(0.0%)								(1.3%)								
1997	12,035	3,121	1,234	594	335	50			247	6	38								247								18,197
*	(66.1%)	(17.2%)	(6.8%)	(3.3%)	(1.8%)	(0.3%)			(1.4%)	(0.0%)	(0.2%)								(1.4%)								
1998	18,281	1,442	719	541	213	65	11		608	3	19								608								22,736
*	(80.4%)	(6.3%)	(3.2%)	(2.4%)	(0.9%)	(0.3%)	(0.0%)		(2.7%)	(0.0%)	(0.1%)								(2.7%)								
1999	13,243	8,267	1,885	1,099	503	135			330	35	23								330								26,313
*	(50.3%)	(31.4%)	(7.2%)	(4.2%)	(1.9%)	(0.5%)			(1.3%)	(0.1%)	(0.1%)								(1.3%)								
2000	14,001	3,596	1,219	1,227	374	101	18	18	150	25	12								150								21,099
**	(66.4%)	(17.0%)	(5.8%)	(5.8%)	(1.8%)	(0.5%)	(0.1%)	(0.1%)	(0.7%)	(0.1%)	(0.1%)								(0.7%)								
2001	9,339	2,230	552	732	158	127			59	9									59								13,330
****	(70.1%)	(16.7%)	(4.1%)	(5.5%)	(1.2%)	(1.0%)			(0.4%)	(0.1%)									(0.4%)								
2002	9,954	3,223	1,492	441	87	75			371	12	5	21							371								18,117
*	(54.9%)	(17.8%)	(8.2%)	(2.4%)	(0.5%)	(0.4%)			(2.0%)	(0.1%)	(0.0%)	(0.1%)							(2.0%)								
2003	8,647	1,242	1,012	336	66	51			163	85	34								163								14,178
*	(61.0%)	(8.8%)	(7.1%)	(2.4%)	(0.5%)	(0.4%)			(1.1%)	(0.6%)	(0.2%)								(1.1%)								
2004	12,797	2,793	1,231	453	72	132			669				12						669								19,989
*	(64.0%)	(14.0%)	(6.2%)	(2.3%)	(0.4%)	(0.7%)			(3.3%)				(0.1%)						(3.3%)								

\* SAXON, WASHBURN, CORNUCOPIA / PORT WING, SUPERIOR.

\*\* SAXON, WASHBURN, CORNUCOPIA / PORT WING, SUPERIOR, ASHLAND, BAYFIELD.

\*\*\* SAXON, WASHBURN, CORNUCOPIA / PORT WING, SUPERIOR, ASHLAND.

\*\*\*\* SAXON, WASHBURN, CORNUCOPIA / PORT WING.

**TABLE 8**  
**WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST 1988 - 2004.**  
**CORNUCOUPIA - PORT WING**  
(PERCENT OF TOTAL HARVEST PER YEAR IN PARENTHESES)

YEAR	LAKE TROUT	COHO SALMON	CHINOOK SALMON	BROWN TROUT	SPLAKE	RAINB. TROUT	ATLAN. SALMON	BROOK TROUT	FATS	HERR	SMELT	NOP	WAE	TOTAL HARVEST
<b>1988</b>	986 (15.8%)	3,296 (52.8%)	1,685 (27.0%)	182 (2.9%)			27 (0.4%)		55 (0.9%)				13 (0.2%)	<b>6,244</b>
<b>1989</b>	1,109 (29.8%)	1,739 (46.7%)	479 (12.9%)	309 (8.3%)		58 (1.6%)	8 (0.2%)						22 (0.6%)	<b>3,724</b>
<b>1990</b>	719 (46.3%)	509 (32.8%)	108 (7.0%)	217 (14.0%)										<b>1,553</b>
<b>1991</b>	1,101 (62.6%)	491 (27.9%)	39 (2.2%)	72 (4.1%)					19 (1.1%)				36 (2.0%)	<b>1,758</b>
<b>1992</b>	2,292 (59.1%)	797 (20.6%)	289 (7.5%)	186 (4.8%)		5 (0.1%)	24 (0.6%)		92 (2.4%)			4 (0.1%)	189 (4.9%)	<b>3,878</b>
<b>1993</b>	1,591 (50.0%)	898 (28.2%)	362 (11.4%)	111 (3.5%)	8 (0.3%)	10 (0.3%)	8 (0.3%)		105 (3.3%)	10 (0.3%)		11 (0.3%)	70 (2.2%)	<b>3,184</b>
<b>1994</b>	1,252 (51.7%)	555 (22.9%)	264 (10.9%)	248 (10.2%)		50 (2.1%)	25 (1.0%)		14 (0.6%)			13 (0.5%)		<b>2,421</b>
<b>1995</b>	925 (33.0%)	1,140 (40.6%)	285 (10.2%)	115 (4.1%)			17 (0.6%)		306 (10.9%)				18 (0.6%)	<b>2,806</b>
<b>1996</b>	1,118 (51.1%)	593 (27.1%)	203 (9.3%)	130 (5.9%)		81 (3.7%)		18 (0.8%)	38 (1.7%)				8 (0.4%)	<b>2,189</b>
<b>1997</b>	896 (42.7%)	579 (27.6%)	210 (10.0%)	252 (12.0%)		17 (0.8%)			75 (3.6%)			46 (2.2%)	23 (1.1%)	<b>2,098</b>
<b>1998</b>	3,161 (67.0%)	547 (11.6%)	264 (5.6%)	231 (4.9%)		11 (0.2%)			428 (9.1%)				74 (1.6%)	<b>4,716</b>
<b>1999</b>	2,515 (50.5%)	1,445 (29.0%)	469 (9.4%)	268 (5.4%)		36 (0.7%)			236 (4.7%)				10 (0.2%)	<b>4,979</b>
<b>2000</b>	1,786 (72.8%)	149 (6.1%)	251 (10.2%)	157 (6.4%)		17 (0.7%)	4 (0.2%)		82 (3.3%)				7 (0.3%)	<b>2,453</b>
<b>2001</b>	3,949 (74.3%)	594 (11.2%)	278 (5.2%)	236 (4.4%)	14 (0.3%)	122 (2.3%)			54 (1.0%)			36 (0.7%)	35 (0.7%)	<b>5,318</b>
<b>2002</b>	3,166 (59.3%)	982 (18.4%)	626 (11.7%)	129 (2.4%)		31 (0.6%)			296 (5.5%)			7 (0.1%)	104 (1.9%)	<b>5,341</b>
<b>2003</b>	3,111 (67.8%)	349 (7.6%)	592 (12.9%)	116 (2.5%)		47 (1.0%)			137 (3.0%)				237 (5.2%)	<b>4,589</b>
<b>2004</b>	3,494 (70.7%)	576 (11.7%)	207 (4.2%)	171 (3.5%)		88 (1.8%)			408 (8.3%)					<b>4,944</b>

**TABLE 9**  
**WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST 1988 - 2004.**  
**SAXON HARBOR**  
(PERCENT OF TOTAL HARVEST PER YEAR IN PARENTHESES)

YEAR	LAKE TROUT	COHO SALMON	CHINOOK SALMON	BROWN TROUT	SPLAKE	RAINB. TROUT	ATLAN. SALMON	FATS	WHITE FISH	HERR	NOP	WAE	TOTAL HARVEST
<b>1988</b>	2,384 (64.9%)	1,126 (30.6%)	77 (2.1%)	6 (0.2%)	11 (0.3%)	72 (2.0%)							<b>3,676</b>
<b>1989</b>	3,327 (71.9%)	1,131 (24.4%)	37 (0.8%)	43 (0.9%)		89 (1.9%)							<b>4,627</b>
<b>1990</b>	2,525 (87.3%)	240 (8.3%)	115 (4.0%)	5 (0.2%)		6 (0.2%)							<b>2,891</b>
<b>1991</b>	1,735 (71.7%)	527 (21.8%)	74 (3.1%)	75 (3.1%)		5 (0.2%)		3 (0.1%)					<b>2,419</b>
<b>1992</b>	1,240 (84.1%)	188 (12.8%)	28 (1.9%)	18 (1.2%)									<b>1,474</b>
<b>1993</b>	2,234 (76.8%)	422 (14.5%)	210 (7.2%)	25 (0.9%)				11 (0.4%)		8 (0.3%)			<b>2,910</b>
<b>1994</b>	2,962 (78.1%)	702 (18.5%)	80 (2.1%)	46 (1.2%)					2 (0.1%)				<b>3,792</b>
<b>1995</b>	1,631 (63.8%)	801 (31.3%)	30 (1.2%)	20 (0.8%)			4 (0.2%)	71 (2.8%)					<b>2,557</b>
<b>1996</b>	1776 (78.4%)	294 (13.0%)	64 (2.8%)	15 (0.7%)				109 (4.8%)	6 (0.3%)				<b>2,264</b>
<b>1997</b>	3,271 (68.2%)	1,102 (23.0%)	228 (4.8%)	42 (0.9%)	4 (0.1%)	7 (0.1%)		103 (2.1%)		38 (0.8%)			<b>4,795</b>
<b>1998</b>	2,889 (86.8%)	226 (6.8%)	37 (1.1%)	98 (2.9%)	3 (0.1%)	13 (0.4%)		47 (1.4%)		8 (0.2%)	6 (0.2%)		<b>3,327</b>
<b>1999</b>	2,224 (50.0%)	1,653 (37.1%)	346 (7.8%)	153 (3.4%)	3 (0.1%)	7 (0.2%)		16 (0.4%)	9 (0.2%)	3 (0.1%)		36 (0.8%)	<b>4,450</b>
<b>2000</b>	2,313 (73.9%)	560 (17.9%)	157 (5.0%)	89 (2.8%)	6 (0.2%)			5 (0.2%)					<b>3,130</b>
<b>2001</b>	2,593 (74.1%)	569 (16.3%)	94 (2.7%)	234 (6.7%)				5 (0.1%)				4 (0.1%)	<b>3,499</b>
<b>2002</b>	1,968 (79.6%)	270 (10.9%)	52 (2.1%)	50 (2.0%)		9 (0.4%)		4 (0.2%)	12 (0.5%)	5 (0.2%)		101 (4.1%)	<b>2,471</b>
<b>2003</b>	2,606 (84.6%)	286 (9.3%)	68 (2.2%)	37 (1.2%)				6 (0.2%)	71 (2.3%)	7 (0.2%)			<b>3,081</b>
<b>2004</b>	4,843 (83.6%)	567 (9.8%)	323 (5.6%)	52 (0.9%)		6 (0.1%)							<b>5,791</b>

TABLE 10

## WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST 1988 - 2004.

## WASHBURN

(PERCENT OF TOTAL HARVEST PER YEAR IN PARENTHESES)

YEAR	LAKE TROUT	COHO SALMON	CHINOOK SALMON	BROWN TROUT	SPLAKE	RAINB. TROUT	ATLAN. SALMON	BROOK TROUT	FATS	WHITE FISH	MULE	HERR	NOP	WAE	YEP	TOTAL HARVEST
<b>1988*</b>	3,132 (24.9%)	7,221 (57.5%)	611 (4.9%)	892 (7.1%)	394 (3.1%)	312 (2.5%)										<b>12,562</b>
<b>1989*</b>	3,052 (28.7%)	5,851 (55.0%)	471 (4.4%)	751 (7.1%)	246 (2.3%)	128 (1.2%)	28 (0.3%)	13 (0.1%)					84 (0.8%)	5 (0.0%)		<b>10,629</b>
<b>1990*</b>	3,033 (50.3%)	1,546 (25.6%)	336 (5.6%)	767 (12.7%)	350 (5.8%)											<b>6,032</b>
<b>1991*</b>	4,935 (43.5%)	5535 (48.8%)	142 (1.3%)	482 (4.2%)	65 (0.6%)	109 (1.0%)			79 (0.7%)							<b>11347</b>
<b>1992</b>	2,369 (39.5%)	1,265 (21.1%)	584 (9.7%)	1,388 (23.1%)	294 (4.9%)	23 (0.4%)	24 (0.4%)	15 (0.3%)	16 (0.3%)				12 (0.2%)	6 (0.1%)		<b>5,996</b>
<b>1993</b>	1,789 (46.6%)	1,280 (33.4%)	298 (7.8%)	338 (8.8%)	28 (0.7%)	3 (0.1%)	10 (0.3%)		44 (1.1%)	12 (0.3%)		30 (0.8%)		3 (0.1%)	3 (0.1%)	<b>3,838</b>
<b>1994</b>	1,549 (21.9%)	4,943 (70.0%)	83 (1.2%)	311 (4.4%)	170 (2.4%)		5 (0.1%)		5 (0.1%)							<b>7,066</b>
<b>1995</b>	1,704 (26.6%)	4,002 (62.4%)	210 (3.3%)	180 (2.8%)	186 (2.9%)	12 (0.2%)	25 (0.4%)		78 (1.2%)			6 (0.1%)	8 (0.1%)			<b>6,411</b>
<b>1996</b>	2,469 (65.0%)	752 (19.8%)	237 (6.2%)	213 (5.6%)	68 (1.8%)	8 (0.2%)	9 (0.2%)		4 (0.1%)					12 (0.3%)	29 (0.8%)	<b>3,801</b>
<b>1997</b>	2,774 (60.1%)	1,107 (24.0%)	137 (3.0%)	199 (4.3%)	331 (7.2%)	24 (0.5%)			19 (0.4%)	6 (0.1%)				10 (0.2%)	12 (0.3%)	<b>4,619</b>
<b>1998</b>	4,199 (75.8%)	527 (9.5%)	144 (2.6%)	175 (3.2%)	205 (3.7%)	35 (0.6%)	11 (0.2%)		110 (2.0%)	3 (0.1%)		11 (0.2%)	91 (1.6%)	32 (0.6%)		<b>5,543</b>
<b>1999</b>	3,635 (34.6%)	4,599 (43.7%)	689 (6.5%)	564 (5.4%)	500 (4.8%)	71 (0.7%)			20 (0.2%)	26 (0.2%)		20 (0.2%)		205 (1.9%)	191 (1.8%)	<b>10,520</b>
<b>2000</b>	3,716 (52.7%)	2,113 (30.0%)	251 (3.6%)	517 (7.3%)	204 (2.9%)	45 (0.6%)	10 (0.1%)	15 (0.2%)	11 (0.2%)	15 (0.2%)		9 (0.1%)	88 (1.2%)	52 (0.7%)		<b>7,046</b>
<b>2001</b>	2,797 (62.0%)	1,067 (23.6%)	180 (4.0%)	262 (5.8%)	144 (3.2%)	5 (0.1%)				9 (0.2%)			17 (0.4%)	32 (0.7%)		<b>4,513</b>
<b>2002</b>	2,432 (52.2%)	1,255 (26.9%)	292 (6.3%)	206 (4.4%)	87 (1.9%)	19 (0.4%)					21 (0.5%)		56 (1.2%)	208 (4.5%)	86 (1.8%)	<b>4,662</b>
<b>2003</b>	1,614 (66.8%)	304 (12.6%)	152 (6.3%)	146 (6.0%)	66 (2.7%)	4 (0.2%)			11 (0.5%)	14 (0.6%)		27 (1.1%)	27 (1.1%)	51 (2.1%)		<b>2,416</b>
<b>2004</b>	2,730 (57.5%)	1,314 (27.7%)	277 (5.8%)	206 (4.3%)	72 (1.5%)	38 (0.8%)		12 (0.3%)	45 (0.9%)				26 (0.5%)	30 (0.6%)		<b>4,750</b>

\* 1988-1991 DATA COMBINES BOTH BAYFIELD AND WASHBURN

TABLE 11

## WISCONSIN'S LAKE SUPERIOR. PRIVATE OPEN WATER-COLD FISHERY HARVEST 1988 - 2004.

## PORT OF SUPERIOR

(PERCENT OF TOTAL HARVEST PER YEAR IN PARENTHESES)

YEAR	LAKE TROUT	COHO SALMON	CHINOOK SALMON	BROWN TROUT	RAINB. TROUT	ATLAN. SAL.	SPALKE	BROOK TROUT	FATS	HERR	BURBOT	SMELT	MUSKY	NOP	WAE	YEP	TOTAL HARVEST
<b>1988</b>	5,155 (50.7%)	2,236 (22.0%)	2,461 (24.2%)	22 (0.2%)	72 (0.7%)	13 (0.1%)			62 (0.6%)						142 (1.4%)		<b>10,163</b>
<b>1989</b>	3,920 (47.3%)	1,808 (21.8%)	1,901 (22.9%)	83 (1.0%)	139 (1.7%)	46 (0.6%)		4 (0.0%)	67 (0.8%)			5 (0.1%)			312 (3.8%)		<b>8,285</b>
<b>1990</b>	2,932 (61.5%)	321 (6.7%)	881 (18.5%)	83 (1.7%)	43 (0.9%)	7 (0.1%)	7 (0.1%)		122 (2.6%)					5 (0.1%)	369 (7.7%)		<b>4,770</b>
<b>1991</b>	3,235 (38.1%)	598 (7.0%)	674 (7.9%)	194 (2.3%)	77 (0.9%)	10 (0.1%)			125 (1.5%)					20 (0.2%)	3,553 (41.9%)		<b>8,486</b>
<b>1992</b>	2,587 (40.0%)	185 (2.9%)	896 (13.9%)	69 (1.1%)	14 (0.2%)	67 (1.0%)			163 (2.5%)					20 (0.3%)	2,459 (38.1%)		<b>6,460</b>
<b>1993</b>	3,830 (39.7%)	741 (7.7%)	1,566 (16.3%)	203 (2.1%)	69 (0.7%)	11 (0.1%)			165 (1.7%)	11 (0.1%)	16 (0.2%)			71 (0.7%)	2,953 (30.6%)		<b>9,636</b>
<b>1994</b>	1,962 (54.7%)	354 (9.9%)	390 (10.9%)	34 (0.9%)					55 (1.5%)					34 (0.9%)	759 (21.2%)		<b>3,588</b>
<b>1995</b>	2,268 (45.6%)	1,316 (26.4%)	786 (15.8%)	33 (0.7%)	28 (0.6%)	18 (0.4%)	9 (0.2%)	12 (0.2%)	247 (5.0%)				9 (0.2%)		252 (5.1%)		<b>4,978</b>
<b>1996</b>	1,488 (40.2%)	317 (8.6%)	1,024 (27.7%)	116 (3.1%)	26 (0.7%)				55 (1.5%)						676 (18.3%)		<b>3,702</b>
<b>1997</b>	743 (31.8%)	333 (14.3%)	659 (28.2%)	101 (4.3%)	2 (0.1%)				50 (2.1%)						446 (19.1%)		<b>2,334</b>
<b>1998</b>	1,359 (54.9%)	142 (5.7%)	274 (11.1%)	37 (1.5%)	6 (0.2%)		5 (0.2%)		23 (0.9%)						631 (25.5%)		<b>2,477</b>
<b>1999</b>	1,554 (51.0%)	570 (18.7%)	381 (12.5%)	114 (3.7%)	21 (0.7%)				58 (1.9%)					10 (0.3%)	341 (11.2%)		<b>3,049</b>
<b>2000</b>	1,681 (66.9%)	135 (5.4%)	408 (16.2%)	72 (2.9%)	17 (0.7%)				37 (1.5%)					23 (0.9%)	140 (5.6%)		<b>2,513</b>
<b>2001*</b>	NO CREEL CONDUCTED DURING 2001.																<b>0</b>
<b>2002</b>	2,388 (42.3%)	716 (12.7%)	522 (9.3%)	56 (1.0%)	16 (0.3%)				71 (1.3%)						1,858 (32.9%)	16 (0.3%)	<b>5,643</b>
<b>2003</b>	1,316 (32.2%)	303 (7.4%)	200 (4.9%)	37 (0.9%)					9 (0.2%)					41 (1.0%)	2,186 (53.4%)		<b>4,092</b>
<b>2004</b>	1,730 (38.4%)	336 (7.5%)	424 (9.4%)	24 (0.5%)					216 (4.8%)						1,774 (39.4%)		<b>4,504</b>



TABLE 12

OPEN WATER COLD PRIVATE LAKE TROUT HARVEST RATES (LAKE TROUT PER ANGLER HOUR) BY ROUTE , WISCONSIN WATERS OF LAKE SUPERIOR, JUNE - AUGUST 1989 - 2004.

YEAR	ASHLAND	BAYFIELD	CORNUCOPIA/ PORT WING	SAXON HARBOR	SUPERIOR	WASHBURN	TOTAL
1989	0.054	N/A	0.049	0.145	0.087	0.080*	0.084
1990	0.103	N/A	0.038	0.201	0.075	0.084*	0.085
1991	N/A	N/A	0.084	0.124	0.063	0.086*	0.080
1992	0.073	N/A	0.097	0.104	0.057	0.080	0.076
1993	0.115	N/A	0.058	0.121	0.064	0.080	0.075
1994	0.081	0.081	0.058	0.145	0.039	0.062	0.071
1995	N/A	N/A	0.043	0.116	0.060	0.085	0.069
1996	N/A	N/A	0.075	0.118	0.041	0.119	0.078
1997	N/A	N/A	0.071	0.171	0.036	0.145	0.105
1998	N/A	N/A	0.127	0.280	0.050	0.139	0.133
1999	N/A	N/A	0.120	0.203	0.066	0.087	0.101
2000	0.225	0.106	0.136	0.172	0.095	0.122	0.131
2001	N/A	N/A	0.168	0.176	N/A	0.101	0.140
2002	N/A	N/A	0.102	0.141	0.070	0.077	0.091
2003	N/A	N/A	0.111	0.157	0.058	0.078	0.099
2004	N/A	N/A	0.122	0.242	0.063	0.121	0.130

\* WASHBURN AND BAYFIELD ROUTES COMBINED

TABLE 13

PERCENT NATIVE LAKE TROUT HARVESTED BY AREA, OPEN WATER COLD, PRIVATE BOAT 1985-2004.

YEAR	ASHLAND BAYFIELD WASHBURN	CORN./ PORT WING	SAXON HARBOR	SUPERIOR	TOTAL
1985	33.9	N/A	74.3	9.9	UNKNOWN
1986	38.0	22.0	67.0	16.5	UNKNOWN
1987	58.8	42.8	84.6	15.1	46.6
1988	57.0	26.9	90.4	15.7	43.8
1989	67.8	47.3	95.8	20.7	58.7
1990	62.3	67.2	95.5	27.0	60.7
1991	85.8	36.1	94.9	25.8	66
1992	82.4	66.8	92.0	25.3	64
1993	80.0	49.8	97.4	40.6	64
1994	82.1	49.4	98.0	48.8	76
1995	65.2*	72.1	94.3	46.9	67
1996	80.9*	75.6	98.1	57.0	79
1997	46.0*	44.4	96.9	56.3	68
1998	52.8*	45.6	98.8	57.8	63
1999	72.8*	57.9	96.3	49.4	70
2000	90.3	66.7	96.4	44.4	82.6
2001	88.3*	68.8	99.3	N/A	83.1
2002	92.1*	73.1	98.7	63.2	82.1
2003	91.8*	80.1	99.2	60.3@	84.8
2004	95.9*	84.3	99.2	75.7	91.2

\* WASHBURN ROUTE ONLY

@ 2003 SUPERIOR % NATIVE DERIVED USING 2002 NUMBERS

**TABLE 14**  
**2004 LAKE TROUT EXTRACTION BY MANAGEMENT UNIT BY FISHERY**

W-1	EST.	%	EST. #	AVE SIZE	WEIGHTED		EST #	AVE SIZE	WEIGHTED	SAMPLE
	CATCH	HATCH.	HATCH.	HATCH.	HATCH.	%NATIVE	NATIVE	NATIVE	NATIVE	SIZE
CHARTER										
CORN.-PORT WING	451	14.48	65	25.4	1658.742	85.52	386	21.5	8292.447	
SUPERIOR	1,352	24.27	328	22.9	7514.186	75.73	1,024	20.5	20989.327	
TOTAL	1,803	21.82	393	23.3	9172.928	78.18	1,410	20.8	29281.774	

OPEN WATER-COLD										
CORN. - PORT W.	2,333	14.48	338	25.4	8580.587	85.52	1,995	21.5	42896.404	221
SUPERIOR	1,730	24.27	420	22.9	9615.046	75.73	1,310	20.5	26857.645	220
TOTAL	4,063	18.65	758	24.0	18195.6333	81.35	3,305	21.1	69754.049	441

OPEN WATER-COOL										
CORN. - PORT W.	68	25.00	17	24.2	411.400	75.00	51	23.8	1213.800	4

W-1 TOTAL	5,934	19.69	1168	23.8	27779.961	80.31	4,766	21.0	100249.623	445
WEIGHT (LBS)	18801.5160			4.2967	5019.0810			2.8919	13782.4351	

## W-2

CHARTER										
ASH.-BAYF.-WASH.	1,823	4.07	74	21.1	1565.538	95.93	1,749	21.0	36724.882	
CORN.-PORT WING	0	0.00	0	0.0	0.000	100.00	0	0.0	0.000	
SAXON	341	0.85	3	26.7	77.390	99.15	338	22.1	7472.043	
TOTAL	2,164	3.56	77	21.3	1642.92766	96.44	2,087	21.2	44196.925	

ICE										
SHALLOW	73	12.33	9	18.1	162.916	87.67	64	23.6	1510.379	6
BOBB. APOS. ISL.	1,791	12.62	226	26.0	5876.629	87.38	1,565	23.5	36776.931	298
BOBB. CORN.	485	48.60	236	24.5	5774.895	51.40	249	24.7	6157.463	105
CORNY SHALLOW	0		0		0.000	100.00	0		0.000	
TOTAL	2,349	20.04	471	25.1	11814.440	79.96	1,878	23.7	44444.773	409

OPEN WATER-COLD										
ASHLAND	1,354	4.07	55	21.1	1162.775	95.93	1,299	21.0	27276.736	0
BAYFIELD	1,720	4.07	70	21.1	1477.084	95.93	1,650	21.0	34649.916	0
CORNACOUPIA	1,161	15.45	179	21.2	3802.739	84.55	982	20.8	20417.810	110
SAND BAY	236	4.07	10	21.1	202.670	95.93	226	21.0	4754.291	0
SAXON	4,843	0.85	41	26.7	1099.119	99.15	4,802	22.1	106120.542	723
WASHBURN	2,730	4.07	111	21.1	2344.442	95.93	2,619	21.0	54996.669	311
TOTAL	12,044	3.87	466	21.6	10088.8291	96.13	11,578	21.4	248215.965	1,144

OPEN WATER-COOL										
CORN. - PORT W.	16	0.00	0	0.0	0.000	100.00	16	16.1	257.600	1

W-2 TOTAL	16,573	6.12	1,014	23.2	23,546	93.88	15,559	21.7	336857.663	1,554
WEIGHT (LBS)	53612.5421			3.9626	4018.8598			3.1875	49593.6823	

W-1, W-2 TOTAL	22,507	9.70	2,182	23.5	51326.1585	90.30	20,325	21.5	437107.285	1,999
WEIGHT (LBS)	72035.9568			4.1273	9007.0988			3.1011	63028.8580	



**TABLE 15**  
**ESTIMATED ANGLER EFFORT(ANGLER TRIPS AND ANGLER HOURS) BY AREA IN WISCONSIN WATERS**  
**OF LAKE SUPERIOR ICE FISHERY. 1990-2004.**

ANGLER TRIPS															
AREA	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
SHALLOW WATER	8,138	2,973	3,422	7,682	4,768	4,651	4,651	1,857	2,607	5,902	4,924	3,481	2,497	1,681	1,744
COOL WATER	2,389			2,252	1,040					192	145	164	185	16	27
APOS. ISL. - BOBB.	1,526	947	1,451	1,904	1,768	1,512	1,695	2,835	1,758	5,074	3,873	5,525	1,228	5,313	3,178
MAD. ISL. - BOBB.							813	741							
CORNOCUPIA SHAL.												10		16	8
CORNOCUPIA COOL											6	8		20	12
CORNOCUPIA - BOBB.	1,462	791	63		1,070	326	1,172	1,546			212	563		1,274	586
WESTERN END					2,280										
DEC BOATS									133	124	107				
TOTAL	13,515	4,711	4,936	11,838	10,926	6,489	8,331	6,979	4,498	11,292	9,267	9,751	3,910	8,320	5,555

ANGLER HOURS															
AREA	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
SHALLOW WATER	37,150	15,105	16,845	41,021	22,991	25,049	25,049	10,614	12,174	28,423	24,184	16,897	13,064	7,965	7,676
COOL WATER	8,600			9,620	4,602					1,097	761	946	812	96	106
APOS. ISL. - BOBB.	8,604	5,403	8,171	10,382	10,096	8,741	9,414	16,653	9,430	27,949	20,699	30,753	6,834	30,924	16,975
MADLINE ISLAND							4,273	4,473							
CORNOCUPIA SHAL.												16		50	15
CORNOCUPIA COOL											17	37		65	47
CORNOCUPIA - BOBB.	8,724	5,052	337		6,113	1,561	6,881	8,098			1,183	2,918		6,495	3,086
WESTERN END					14,698										
DEC BOATS									465	506	385				
TOTAL	63,078	25,560	25,353	61,023	58,500	35,351	45,617	39,838	22,069	57,975	47,229	51,567	20,710	45,595	27,905

**TABLE 16**  
**WISCONSIN'S LAKE SUPERIOR ICE FISHERY HARVEST 1987 - 2004.**  
**APOSTLE ISLANDS BOBBING**  
(PERCENT OF TOTAL HARVEST PER YEAR IN PARENTHESES)

YEAR	LAKE TROUT	COHO SALMON	CHINOOK SALMON	BROWN TROUT	SPLAKE	RBT	FATS	WHITE FISH	MWF	HERR	HOYI	BURBOT	SMELT	NOP	WAE	MULE	TOTAL CATCH
<b>1987</b>	1,122 (94.5%)				65 (5.5%)												<b>1,187</b>
<b>1988</b>	717 (86.5%)	7 (0.8%)			105 (12.7%)												<b>829</b>
<b>1989</b>	733 (97.6%)			9 (1.2%)	9 (1.2%)												<b>751</b>
<b>1990</b>	539 (94.2%)	9 (1.6%)		11 (1.9%)	13 (2.3%)												<b>572</b>
<b>1991</b>	762 (97.8%)			4 (0.5%)	9 (1.2%)		4 (0.5%)										<b>779</b>
<b>1992</b>	1,343 (98.3%)						23 (1.7%)										<b>1,366</b>
<b>1993</b>	1,766 (88.2%)	21 (1.0%)	12 (0.6%)	12 (0.6%)	13 (0.6%)		67 (3.3%)		14 (0.7%)	44 (2.2%)		54 (2.7%)					<b>2,003</b>
<b>1994</b>	1,385 (67.0%)	11 (0.5%)					650 (31.5%)	5 (0.2%)				15 (0.7%)					<b>2,066</b>
<b>1995</b>	1,224 (73.3%)	68 (4.1%)	8 (0.5%)	10 (0.6%)	65 (3.9%)		62 (3.7%)	17 (1.0%)		76 (4.6%)		65 (3.9%)			75 (4.5%)		<b>1,670</b>
<b>1996</b>	1,016 (75.3%)	24 (1.8%)	22 (1.6%)				207 (15.3%)	20 (1.5%)		11 (0.8%)		43 (3.2%)	7 (0.5%)				<b>1,350</b>
<b>1997</b>	2,755 (68.2%)	8 (0.2%)	33 (0.8%)		52 (1.3%)		663 (16.4%)	23 (0.6%)		96 (2.4%)		275 (6.8%)	132 (3.3%)				<b>4,037</b>
<b>1998</b>	1,620 (69.9%)	68 (2.9%)	76 (3.3%)	51 (2.2%)	83 (3.6%)	3 (0.1%)	10 (0.4%)	86 (3.7%)		147 (6.3%)		167 (7.2%)	7 (0.3%)				<b>2,318</b>
<b>1999</b>	4,065 (58.5%)	187 (2.7%)	6 (0.1%)	42 (0.6%)	239 (3.4%)		216 (3.1%)	1,487 (21.4%)		216 (3.1%)		244 (3.5%)	240 (3.5%)	3 (0.0%)	7 (0.1%)		<b>6,952</b>
<b>2000</b>	2,857 (47.6%)	88 (1.5%)	3 (0.0%)	18 (0.3%)	73 (1.2%)		174 (2.9%)	2,125 (35.4%)		503 (8.4%)		85 (1.4%)	80 (1.3%)				<b>6,006</b>
<b>2001</b>	5,074 (65.8%)	262 (3.4%)	33 (0.4%)	42 (0.5%)	56 (0.7%)	6 (0.1%)	752 (9.7%)	1,029 (13.3%)		242 (3.1%)		158 (2.0%)	54 (0.7%)			6 (0.1%)	<b>7,714</b>
<b>2002</b>	531 (33.1%)	88 (5.5%)	36 (2.2%)	15 (0.9%)	20 (1.2%)		81 (5.0%)	280 (17.4%)		98 (6.1%)		36 (2.2%)	421 (26.2%)				<b>1,606</b>
<b>2003</b>	2,824 (57.7%)	10 (0.2%)	54 (1.1%)		11 (0.2%)		1,470 (30.0%)	415 (8.5%)		48 (1.0%)	5 (0.1%)	40 (0.8%)	16 (0.3%)				<b>4,893</b>
<b>2004</b>	1,791 (62.1%)	6 (0.2%)					552 (19.2%)	458 (15.9%)		46 (1.6%)		29 (1.0%)					<b>2,882</b>

TABLE 17

## ICE BOBBING. EFFORT, HARVEST RATES AND LAKE TROUT HARVEST RATES BY AREA 1991-2004.

\* NO / LIMITED FISHING PRESSURE

## APOSTLE ISLANDS

	ANGL. TRPS	ANGL. HRS	TOT. FISH HRV.	FISH / HOUR	LAKE TROUT HARVEST	LAKE TROUT / HOUR	ANGLR. HRS / LKT
1991	947	5,403	775	0.143	762	0.141	7.091
1992	1,451	8,171	1,366	0.167	1,343	0.164	6.084
1993	1,904	10,382	2,003	0.193	1,766	0.170	5.879
1994	1,768	10,096	2,066	0.205	1,385	0.137	7.290
1995	1,412	8,741	1,670	0.191	1,224	0.140	7.141
1996	2,508	13,687	2,237	0.163	1,453	0.106	9.420
1997	3,576	21,126	4,956	0.235	3,280	0.155	6.441
1998	1,758	9,430	2,318	0.246	1,620	0.172	5.821
1999	5,074	27,949	6,952	0.249	4,065	0.145	6.876
2000	3,873	20,699	6,006	0.290	2,857	0.138	7.245
2001	5,525	30,753	7,714	0.251	5,074	0.165	6.061
2002	1,228	6,834	1,606	0.235	531	0.078	12.870
2003	5,313	30,924	4,893	0.158	2,824	0.091	10.950
2004	3,178	16,975	2,882	0.170	1,791	0.106	9.478
<b>TOTAL</b>	<b>39,515</b>	<b>221,170</b>	<b>47,444</b>		<b>29,975</b>		
<b>AVE.</b>	<b>2,823</b>	<b>15,798</b>	<b>3,389</b>	<b>0.215</b>	<b>2,141</b>	<b>0.136</b>	<b>7.378</b>

## WESTERN END

	ANGL. TRPS	ANGL. HRS	TOT. FISH HRV.	FISH / HOUR	LAKE TROUT HARVEST	LAKE TROUT / HOUR	ANGLR. HRS / LKT
1991*							
1992*							
1993*							
1994	2,280	14,698	1,993	0.136	1,993	0.136	7.375
1995*							
1996*							
1997*							
1998*							
1999*							
2000*							
2001*							
2002*							
2003*							
2004*							
<b>TOTAL</b>	<b>2,280</b>	<b>14,698</b>	<b>1,993</b>	<b>0.136</b>	<b>1,993</b>	<b>0.136</b>	<b>7.375</b>

\* NO OR LIMITED FISHING PRESSURE / NOT CREELED

## CORNUCOPIA / BARK BAY

NOT CREELED

	ANGL. TRPS	ANGL. HRS	TOT. FISH HRV.	FISH / HOUR	LAKE TROUT HARVEST	LAKE TROUT / HOUR	ANGLR. HRS / LKT
1991	791	5,052	521	0.103	521	0.103	9.697
1992	63	337	73	0.217	70	0.208	4.814
1993*							
1994	1,070	6,113	1,384	0.226	1,198	0.196	5.103
1995	326	1,561	237	0.152	184	0.118	8.484
1996	1,172	6,881	1,035	0.150	844	0.123	8.153
1997	1,546	8,098	1,371	0.169	1,209	0.149	6.698
1998*							
1999*							
2000	212	1,183	255	0.216	251	0.212	4.713
2001	563	2,918	650	0.223	616	0.211	4.737
2002*							
2003	1,274	6,495	1,017	0.157	994	0.153	6.534
2004	586	3,086	516	0.167	485	0.157	6.363
<b>TOTAL</b>	<b>7,603</b>	<b>41,724</b>	<b>7,059</b>		<b>6,372</b>		
<b>AVE.</b>	<b>760</b>	<b>4,172</b>	<b>706</b>	<b>0.169</b>	<b>637</b>	<b>0.153</b>	<b>6.548</b>

## TOTAL - ALL AREAS

	ANGL. TRPS	ANGL. HRS	TOT. FISH HRV.	FISH / HOUR	LAKE TROUT HARVEST	LAKE TROUT / HOUR	ANGLR. HRS / LKT
1991	1,738	10,455	1,296	0.124	1,283	0.123	8.149
1992	1,514	8,508	1,439	0.169	1,413	0.166	6.021
1993	1,904	10,382	2,003	0.193	1,766	0.170	5.879
1994	5,118	30,907	5,443	0.176	4,576	0.148	6.754
1995	1,738	10,302	1,970	0.191	1,408	0.137	7.317
1996	3,680	20,568	3,272	0.159	2,297	0.112	8.954
1997	5,122	29,215	6,327	0.217	4,489	0.154	6.508
1998	1,758	9,430	2,318	0.246	1,620	0.172	5.821
1999	5,074	27,949	6,952	0.249	4,065	0.145	6.876
2000	4,085	21,882	6,261	0.286	3,108	0.142	7.041
2001	6,008	33,671	8,364	0.248	5,690	0.169	5.918
2002	1,228	6,834	1,606	0.235	531	0.078	12.870
2003	6,587	37,419	5,910	0.158	3,918	0.105	9.551
2004	3,764	20,061	3,398	0.169	2,276	0.113	8.814
<b>TOTAL</b>	<b>49,318</b>	<b>277,583</b>	<b>56,559</b>		<b>38,440</b>		
<b>AVE.</b>	<b>3,523</b>	<b>19,827</b>	<b>4,040</b>	<b>0.204</b>	<b>2,746</b>	<b>0.138</b>	<b>7.221</b>

TABLE 18

**WISCONSIN'S LAKE SUPERIOR CHARTER EFFORT, HARVEST RATES AND LAKE TROUT  
HARVEST RATES, 1973-2004.**

<b>YEAR</b>	<b># OF ACTIVE GUIDES</b>	<b># OF ANGLERS</b>	<b># OF ANGLER HOURS</b>	<b># OF TOTAL FISH</b>	<b>FISH / HOUR</b>	<b>ANGL. HRS / FISH</b>	<b># OF LAKE TROUT</b>	<b>LAKE TROUT / HOUR</b>	<b>ANGLR. HRS / LKT</b>
1973	25	3,907	26,695	4,680	0.18	5.70	4,108	0.15	6.50
1974	24	2,986	19,685	3,263	0.17	6.03	2,423	0.12	8.12
1975	19	3,305	21,765	4,873	0.22	4.47	3,836	0.18	5.67
1976	21	2,566	16,408	2,730	0.17	6.01	2,218	0.14	7.40
1977	19	2,611	16,233	2,977	0.18	5.45	2,442	0.15	6.65
1978	15	2,988	19,691	4,317	0.22	4.56	3,046	0.15	6.46
1979	13	2,711	16,232	4,085	0.25	3.97	3,537	0.22	4.59
1980	14	3,529	22,247	5,836	0.26	3.81	4,798	0.22	4.64
1981	15	2,781	18,019	3,927	0.22	4.59	3,246	0.18	5.55
1982*	18	3,151	20,641	5,860	0.28	3.52	5,302	0.26	3.89
1983*	20	3,377	21,876	6,674	0.31	3.28	5,531	0.25	3.96
1984	29	3,140	20,458	6,084	0.30	3.36	5,355	0.26	3.82
1985	31	3,546	22,817	7,969	0.35	2.86	6,723	0.29	3.39
1986	32	3,173	19,238	5,114	0.27	3.76	3,952	0.21	4.87
1987	42	4,100	25,782	6,603	0.26	3.90	5,423	0.21	4.75
1988	45	4,541	28,190	6,744	0.24	4.18	5,149	0.18	5.47
1989	49	5,174	33,447	7,623	0.23	4.39	4,867	0.15	6.87
1990	50	4,917	30,313	5,270	0.17	5.75	4,098	0.14	7.40
1991	46	4,223	24,937	6,244	0.25	3.99	4,268	0.17	5.84
1992	40	3,337	20,662	4,687	0.23	4.41	3,723	0.18	5.55
1993	38	3,366	19,882	4,550	0.23	4.37	3,635	0.18	5.47
1994	39	3,489	20,800	4,368	0.21	4.76	3,751	0.18	5.55
1995	38	3,120	18,524	4,139	0.22	4.48	3,423	0.18	5.41
1996	35	2,489	14,807	3,466	0.23	4.27	2,780	0.19	5.33
1997	30	2,344	14,350	3,713	0.26	3.86	3,028	0.21	4.74
1998	23	2,289	13,195	3,883	0.29	3.40	3,360	0.25	3.93
1999	26	2,213	13,197	3,860	0.29	3.42	2,931	0.22	4.50
2000	28	2,117	11,928	3,848	0.32	3.10	3,353	0.28	3.56
2001	23	1,794	10,231.5	3,408	0.33	3.00	3,008	0.29	3.40
2002	23	2,374	14,089	4,535	0.32	3.11	3,625	0.26	3.89
2003	26	2,537	14,936	4,170	0.28	3.58	3,425	0.23	4.36
2004	27	2,510	14,614	4,573	0.31	3.20	3,967	0.27	3.68
<b>TOTAL</b>		<b>100,705</b>	<b>625,890</b>	<b>154,073</b>			<b>124,331</b>		
<b>AVE.</b>	<b>29</b>	<b>3,147</b>	<b>19,559</b>	<b>4,815</b>	<b>0.25</b>	<b>4.06</b>	<b>3,885</b>	<b>0.20</b>	<b>5.03</b>

\* 1982 AND 1983 FIGURES INCLUDE SOME MINNESOTA AND MICHIGAN TRIPS LANDING IN WISCONSIN PORTS.

TABLE 19  
WISCONSIN'S LAKE SUPERIOR CHARTER EFFORT, HARVEST RATES AND LAKE TROUT  
HARVEST RATES, 1986-2004. SUPERIOR.

	# OF ACTIVE	ANGLER	ANGLER	TOTAL FISH	FISH /	ANGLR.	# OF	LAKE	ANGLR.
YEAR	GUIDES	TRIPS	HOURS	HARVEST	HOUR	HRS /	LAKE	TROUT /	HRS /
						FISH	TROUT	HOUR	LKT
1986	14	677	3,644	882	0.24	4.13	661	0.18	5.51
1987	20	1,122	6,603	2,357	0.36	2.80	1,982	0.30	3.33
1988	26	1,406	8,145	2,720	0.33	2.99	2,133	0.26	3.82
1989	28	1,694	10,305	3,010	0.29	3.42	1,742	0.17	5.92
1990	26	1,505	9,138	2,061	0.23	4.43	1,467	0.16	6.23
1991	24	1,159	6,905	2,224	0.32	3.10	1,263	0.18	5.47
1992	18	853	5,305	1,296	0.24	4.09	927	0.17	5.72
1993	15	1,045	5,843	1,517	0.26	3.85	974	0.17	6.00
1994	19	956	5,868	1,236	0.21	4.75	986	0.17	5.95
1995	15	714	4,188	847	0.20	4.94	518	0.12	8.08
1996	11	566	3,590	799	0.22	4.49	505	0.14	7.11
1997	9	683	4,613	937	0.20	4.92	518	0.11	8.91
1998	6	513	3,415	775	0.23	4.41	525	0.15	6.50
1999	7	595	3,830	831	0.22	4.61	521	0.14	7.35
2000	7	289	1,884	464	0.25	4.06	307	0.16	6.14
2001	5	36	181	72	0.40	2.51	43	0.24	4.21
2002	4	652	4,521	1,401	0.31	3.23	986	0.22	4.59
2003	6	874	5,367.5	1,599	0.30	3.36	1,029	0.19	5.22
2004	6	854	5,279	1,585	0.30	3.33	1,352	0.26	3.90
TOTAL		16,193	98,625	26,613			18,439		
AVE.		852	5,191	1,401	0.27	3.71	970	0.19	5.35

TABLE 20  
WISCONSIN'S LAKE SUPERIOR CHARTER EFFORT, HARVEST RATES AND LAKE TROUT  
HARVEST RATES, 1988-2004. CORNUCOPIA / PORT WING.

	# OF ACTIVE	ANGLER	ANGLER	TOTAL FISH	FISH /	ANGLR.	# OF	LAKE	ANGLR.
YEAR	GUIDES	TRIPS	HOURS	HARVEST	HOUR	HRS /	LAKE	TROUT /	HRS /
						FISH	TROUT	HOUR	LKT
1988	7	709	3,995	1,119	0.28	3.57	769	0.19	5.20
1989	5	838	4,785	1,070	0.22	4.47	562	0.12	8.51
1990	7	867	4,823	983	0.20	4.91	718	0.15	6.72
1991	5	673	3,261	826	0.25	3.95	539	0.17	6.05
1992	7	581	2,960	793	0.27	3.73	585	0.20	5.06
1993	5	382	1,923	463	0.24	4.15	342	0.18	5.62
1994	5	474	2,588	552	0.21	4.69	460	0.18	5.63
1995	4	418	2,016	648	0.32	3.11	452	0.22	4.46
1996	4	345	1,747	799	0.46	2.19	383	0.22	4.56
1997	5	287	1,463	491	0.34	2.98	380	0.26	3.85
1998	4	417	2,095	965	0.46	2.17	767	0.37	2.73
1999	4	341	2,033	755	0.37	2.69	511	0.25	3.98
2000	4	280	1,592	735	0.46	2.17	604	0.38	2.64
2001	4	420	2,397	838	0.35	2.86	669	0.28	3.58
2002	4	465	2,698	1,079	0.40	2.50	856	0.32	3.15
2003	4	381	2,198	704	0.32	3.12	635	0.29	3.46
2004	5	354	1,963	615	0.31	3.19	451	0.23	4.35
TOTAL		8,232	44,537	13,435			9,683		
AVE.		484	2,620	790	0.30	3.31	570	0.22	4.60

TABLE 21  
WISCONSIN'S LAKE SUPERIOR CHARTER EFFORT, HARVEST RATES AND LAKE TROUT  
HARVEST RATES, 1988-2004. ASHLAND, BAYFIELD, WASHBURN.

	# OF ACTIVE	ANGLER	ANGLER	TOTAL FISH	FISH /	ANGLR.	# OF	LAKE	ANGLR.
YEAR	GUIDES	TRIPS	HOURS	HARVEST	HOUR	HRS /	LAKE	TROUT /	HRS /
						FISH	TROUT	HOUR	LKT
1988	10	2,194	14,449	2,476	0.17	5.84	1,868	0.13	7.74
1989	14	2,372	16,581	3,050	0.18	5.44	2,127	0.13	7.80
1990	15	2,233	14,647	1,895	0.13	7.73	1,590	0.11	9.21
1991	15	2,208	13,448	2,864	0.21	4.70	2,158	0.16	6.23
1992	13	1,758	11,455	2,312	0.20	4.95	1,938	0.17	5.91
1993	16	1,755	10,800	2,243	0.21	4.81	2,012	0.19	5.37
1994	13	1,761	10,404	2,068	0.20	5.03	1,818	0.17	5.72
1995	17	1,708	10,434	2,225	0.21	4.69	1,891	0.18	5.52
1996	18	1,418	8,470	1,865	0.22	4.54	1,655	0.20	5.12
1997	14	1,250	7,502	2,059	0.27	3.64	1,908	0.25	3.93
1998	10	1,126	6,322	1,751	0.28	3.61	1,683	0.27	3.76
1999	13	1,121	6,234	2,003	0.32	3.11	1,650	0.26	3.78
2000	15	1,365	7,360	2,342	0.32	3.14	2,146	0.29	3.43
2001	13	1,248	7,089.5	2,341	0.33	3.03	2,146	0.30	3.30
2002	14	1,196	6,529	1,975	0.30	3.31	1,711	0.26	3.82
2003	14	1,151	6,498.5	1,649	0.25	3.94	1,550	0.24	4.19
2004	14	1,133	6,224	2,002	0.32	3.11	1,823	0.29	3.41
TOTAL		26,997	164,447	37,120			31,674		
AVE.		1,588	9,673	2,184	0.23	4.43	1,863	0.19	5.19

TABLE 22  
WISCONSIN'S LAKE SUPERIOR CHARTER EFFORT, HARVEST RATES AND LAKE TROUT  
HARVEST RATES, 1986-2004. SAXON HARBOR.

	# OF ACTIVE	ANGLER	ANGLER	TOTAL FISH	FISH /	ANGLR.	# OF	LAKE	ANGLR.
YEAR	GUIDES	TRIPS	HOURS	HARVEST	HOUR	HRS /	LAKE	TROUT /	HRS /
						FISH	TROUT	HOUR	LKT
1986	4	529	3,265	1,127	0.35	2.90	955	0.29	3.42
1987	2	149	923	305	0.33	3.03	287	0.31	3.22
1988	2	232	1,601	429	0.27	3.73	379	0.24	4.22
1989	2	270	1,840	523	0.28	3.52	436	0.24	4.22
1990	2	312	1,705	331	0.19	5.15	314	0.18	5.43
1991	2	183	1,323	333	0.25	3.97	308	0.23	4.30
1992	2	145	943	286	0.30	3.30	273	0.29	3.45
1993	2	184	1,316	323	0.25	4.07	307	0.23	4.29
1994	2	298	1,940	512	0.26	3.79	487	0.25	3.98
1995	2	280	1,886	419	0.22	4.50	382	0.20	4.94
1996	2	160	1,000	262	0.26	3.82	237	0.24	4.22
1997	2	124	772	226	0.29	3.42	222	0.29	3.48
1998	2	233	1,363	389	0.29	3.50	385	0.28	3.54
1999	2	156	1,100	271	0.25	4.06	249	0.23	4.42
2000	2	183	1,093	307	0.28	3.56	296	0.27	3.69
2001	1	90	564	157	0.28	3.59	150	0.27	3.76
2002	1	61	341	80	0.23	4.26	72	0.21	4.74
2003	2	131	872	218	0.25	4.00	211	0.24	4.13
2004	2	169	1,148	371	0.32	3.09	341	0.30	3.37
TOTAL		3,889	24,995	6,869			6,291		
AVE.		205	1,316	362	0.27	3.64	331	0.25	3.97

**TABLE 23**  
**WISCONSIN'S LAKE SUPERIOR CHARTER FISHERY HARVEST 1982 - 2004.**  
(PERCENT OF TOTAL HARVEST PER YEAR IN PARENTHESES)

YEAR	LAKE TROUT	COHO SALMON	CHINOOK SALMON	BROWN TROUT	RAINBOW TROUT	SPLAKE	ATL. SAL.	PINK SAL.	FATS	WALLEYE	NORTH. PIKE	BROOK	YEP	OTHER	TOTAL CATCH
1982	5,163	286	113	31	35	27								34	5,689
1983	5,531	676	260	65	79	37								26	6,674
1984	5,355	389	150	29	54	58								49	6,084
1985	6,723	524	552	29	51	37								53	7,969
1986	3,952	720	301	72	32	29				30				8	5,144
1987	5,432	520	458	72	69	38				9				5	6,603
1988	5,149	850	576	81	48	23				7				10	6,744
1989	4,867	1,761	684	145	92	31	12			15				5	7,612
1990	4,098	459	452	125	25	10	5			69				27	5,270
1991	4,268	848	333	131	20	6	9		4	616				9	6,244
1992	3,723	312	305	135	13	10	8		3	170				8	4,687
1993	3,635	269	400	73	7	4	4		1	145				12	4,550
1994	3,751 (85.9%)	331 (7.6%)	111 (2.5%)	45 (1.0%)	10 (0.2%)	22 (0.5%)	1 (0.0%)			88 (2.0%)				9 (0.2%)	4,368
1995	3,243 (78.4%)	536 (12.9%)	213 (5.1%)	72 (1.7%)	7 (0.2%)	10 (0.2%)	2 (0.0%)			45 (1.1%)				11 (0.3%)	4,139
1996	2,780 (80.2%)	368 (10.6%)	196 (5.7%)	33 (1.0%)	3 (0.1%)	19 (0.5%)				63 (1.8%)				4 (0.1%)	3,466
1997	3,028 (81.6%)	280 (7.5%)	266 (7.2%)	41 (1.1%)	9 (0.2%)	11 (0.3%)	2 (0.1%)		13 (0.4%)	60 (1.6%)				1 (0.0%)	3,711
1998	3,360 (86.5%)	228 (5.9%)	194 (5.0%)	32 (0.8%)	6 (0.2%)	5 (0.1%)	1 (0.0%)			47 (1.2%)				10 (0.3%)	3,883
1999	2,931 (75.9%)	542 (14.0%)	219 (5.7%)	61 (1.6%)	23 (0.6%)	30 (0.8%)	7 (0.2%)			35 (0.9%)				12 (0.3%)	3,860
2000	3,353 (87.1%)	174 (4.5%)	178 (4.6%)	75 (1.9%)	8 (0.2%)	4 (0.1%)	2 (0.1%)	2 (0.1%)		47 (1.2%)	5 (0.1%)				3,848
2001	3,008 (88.3%)	229 (6.7%)	65 (1.9%)	51 (1.5%)	14 (0.4%)	7 (0.2%)				31 (0.9%)	3 (0.1%)				3,408
2002	3,625 (79.9%)	425 (9.4%)	249 (5.5%)	69 (1.5%)	31 (0.7%)	9 (0.2%)	3 (0.1%)			123 (2.7%)		1 (0.0%)			4,535
2003	3,425 (82.1%)	86 (2.1%)	164 (3.9%)	41 (1.0%)	8 (0.2%)	6 (0.1%)	1 (0.0%)		4 (0.1%)	429 (10.3%)	3 (0.1%)	2 (0.0%)		1 (0.0%)	4,170
2004	3,967 (86.7%)	208 (4.5%)	242 (5.3%)	48 (1.0%)	16 (0.3%)	4 (0.1%)	3 (0.1%)		1 (0.0%)	81 (1.8%)	2 (0.0%)		1 (0.0%)		4,573

**TABLE 24**  
**STURGEON HARVEST, CHEQUAMEGON BAY, 1983-2004.**

YEAR	ANGLER TAGS ISSUED*	TOTAL HARVEST	# HARVESTED 50" OR LARGER	AVERAGE SIZE(inch)	AVERAGE WEIGHT-lb
1983	unknown	2	2	55.0	unknown
1984	unknown	3	1	47.3	unknown
1985	unknown	5	3	51.8	unknown
1986	unknown	4	1	48.4	28.0
1987	unknown	0	0	--	--
1988	unknown	14	8	49.6	30.6
1989	unknown	11	2	46.6	28.0
1990	unknown	7	2	49.9	33.5
1991	unknown	2	2	55.8	44.5
1992	unknown	0	0	--	--
1993	unknown	1	1	64.0	55.0
1994	140	0	0	--	--
1995	unknown	2	2	63.0	59.0
1996	unknown	0	0	--	--
1997	97	1	1	57.8	46.0
1998	92	1	1	54.0	32.0
1999	124	6	6	55.3	40.2
2000	111	0	0	--	--
2001	74	2	2	51.75	--
2002	102	3	3	51.5	--
2003	93	1	1	52.0	--
2004	104	4	4	58.6	--

Sturgeon minimum size limit increased from 40" to 50" in 1991.

\*ANGLER TAGS ISSUED (ASHLAND, BAYFIELD, WASHBURN AREA ONLY)

NOTE: THE STRURGEON HARVESTED IN 2003 WAS NOT REPORTED UNTIL DEC. 2004

APPENDIX 1.

LAKE SUPERIOR CREEL SURVEY TIME INTERVAL COUNT RANDOMIZATION  
ROUTE = "PORT WING" MONTH = 'JULY' DAYTIME = 'WEEKEND' SHIFT = 'AM'

DATE (MM/DD/YY): \_\_\_\_ / \_\_\_\_ / \_\_\_\_

N=5

WEEKDAY (1) WEEKEND/HOLIDAY (2)

TIME	LOCATION	CODE	TIME ARRIVED	TIME DEPARTED	WEIGHTED COUNT
7:00	TRAVEL				
7:07	CORNUCOPIA	520	_____ : _____	_____ : _____	_____ : _____
8:56	TRAVEL				
9:11	BARK POINT	540	_____ : _____	_____ : _____	_____ : _____
9:46	TRAVEL				
9:54	HERBSTER	545	_____ : _____	_____ : _____	_____ : _____
10:05	TRAVEL				
10:17	PORT WING	555	_____ : _____	_____ : _____	_____ : _____
13:32	TRAVEL				
14:00	END OF SHIFT		_____ : _____	_____ : _____	_____ : _____



## DAILY PRESSURE CHECK

## CHECKPOINT

# MINUTES AT CHECKPOINT

[illegible]

### APPENDIX III. 2004 OPEN WATER CREEL ROUTES AND SHIFT TIME INFORMATION.

PORT / ROUTE			NUMBER OF NON- OVERLAPPING		TYPE OF CREEL	COMMENTS
	CREEL DATES	SHIFT TIMES	SHIFTS			
CORNUCOPIA - PORT WING	April 19, 2004 -	APRIL, SEPT.: AM shift: 7am - 2pm PM shifts: 2pm-8pm	2 weekend	Single Loop Time Interval	Both wkend days,	three random wkdays.
	Sept. 30, 2004	MAY-AUG: AM shift: 7am - 2pm PM shifts: 2pm-9pm	2 weekday			
SUPERIOR	May 2, 2004 -	5:30am - 1:30pm	2 weekend	Single Loop Time Interval	Both wkend days,	two random wkdays.
	Sept. 30, 2004	1:30pm - 9:30pm	2 weekday			
SAXON HARBOR	April 19, 2004 -	WKEND: 7am-2pm or 1pm-9pm	2 weekend	Time Interval One Site	one weekend day,	2 or 3 weekdays. Part time clerk.
	Sept. 30, 2004	7am-10:30am; 10:30am - 2pm; 2pm - 5:30pm; 5pm - 9pm	4 weekday			
WASHBURN	April 19, 2004 -	APRIL, SEPT.: AM shift: 7am - 2pm PM shifts: 2pm-8pm	2 weekend	Time Interval One Site	Both wkend days,	three random wkdays.
	Sept. 30, 2004	MAY- AUG: AM shift: 7am - 2pm PM shifts: 2pm-9pm	2 weekday			

### APPENDIX IV. 2004 ICE CREEL ROUTS AND SHIFT TIME INFORMATION.

PORT / ROUTE			NUMBER OF NON- OVERLAPPING		TYPE OF CREEL	COMMENTS
	CREEL DATES	SHIFT TIMES	SHIFTS			
Washburn / Bayfield	Jan. 17, 2004 -	9:00 Am-5:00PM	1 weekend	Stratified	2 Weekend shifts	3 Weekday shifts
	March 27, 2004		1 weekday	2 Counts		

### APPENDIX V. INTERVIEW FORM

CHECK POINT \_\_\_\_\_

DATE \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

WKDAY - 1 WKEND - 2

1 - Coldwater open 2 - Coolwater open 3 - Ice shallow						4 - Ice cool water 5 - Ice bobbing 6 - Stream						7 - Pleasure 8 - Shore angler 9 - Tribal						FISHED IN: 1 - WI 2 - MN 3 - MI				TRIP: 1 - COMPLETE 2 - INCOMPLETE			
ANGLER IN PARTY _____ _____												1 - RESIDENT 2 - NON-RESIDENT 3 - RES. / NONRES.				TIME START _____ : _____ TIME END _____ : _____									
ANGLERS SUCCESSFUL _____																									
FISH SPECIES _____ NO. LEGAL _____												NO .SUBLEGAL _____													
RELEASED: SPECIES _____ NO. LEGAL _____												NO.SUBLEGAL _____													
SPECIES	CODE	LENGTH	FINCLIP	CODE	Tags / Color	SPECIES	CODE	LENGTH	FINCLIP	CODE	Tags / Color	SPECIES	CODE	LENGTH	FINCLIP	CODE	Tags / Color	SPECIES	CODE	LENGTH	FINCLIP	CODE	Tags / Color		

TOTAL NUMBER FISH KEPT \_\_\_\_\_

COMMENTS \_\_\_\_\_

# APPENDIX VI. VEHICLE PRESSURE SHEET

Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Weather: Time\_\_\_\_ AirTemp.\_\_\_\_

Mo. Day Year Precip.\_\_\_\_

Day Type: (1) Weekday  
(2) Weekend/Holiday

#	LOCATION	TIME		CARS				COMMENTS
				Res.		Non-Res.		
305	S" Curve							
307	Thompson Pk.							
311	West End							
319	Washb Coal Dk							
315	Washb marina							
321	Mem. Park							
331	Bodin Resort							
341	Sioux River							
343	Onion R. Beach							
345	Onion R. Mo.							
351	Pikes Bay							
355	Port Superior							
363	Bayfield							
366	Roy's Point							
370	Red Cliff							
380	Pag. Gnds.							
390	Raspberry Bay							
289	Sand Bar							
282	Bell Slip							
270	Hot Pond							
256	Reis Coal Dk.							
258	Kreher Park							
234	Ash. Boat Club							
246	Trebas							
204	2nd Landing							
470	Ice Rd.							
401	K'Punky Bay							
410	Jack Stewart							
420	Kron Beach							
440	NE Tip Mad.							
450	Russel Bay							
471	O' Briens							
480	LaPointe Park							
515	Martenson Rd.							
520	Cornucopia							
530	Roman Point							
540	Bark Point							

## APPENDIX VII SPORT TROLLING LICENSE MONTHLY REPORT (FORM #9400-249).

The shaded areas must be filled out within 1/2 hour after completing each trip, after returning to dock or shore. The unshaded areas must be filled out prior to midnight of the day of each trip.

State of Wisconsin  
Department of Natural Resources

**Sport Trolling License Monthly Report**  
Form 9400-249 (R 1/04) Page 1 of 2

Form 9400-249 (R 1/04)

Page 1 of 2

**Notice:** Completion of this form is mandatory. Failure to complete and submit this form may result in a maximum forfeiture of \$100.00 plus assessments and costs pursuant to s. 29.51(4)(2). **Wis. Stats.** Personally identifiable information on this form will be used to administer the sports rolling program and for research purposes. Wisconsin's Open Records Law s. 19.31-19.39, **Wis. Stats.**, requires the Department to provide this information upon request.

[illegible]

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FIGURE 1. MAJOR PORTS CREELED AND WISCONSIN MANAGEMENT ZONES.

